

PHENIX WEEKLY PLANNING



4/4/2013

Don Lynch

This Week

TECHNICAL SUPPORT 2013

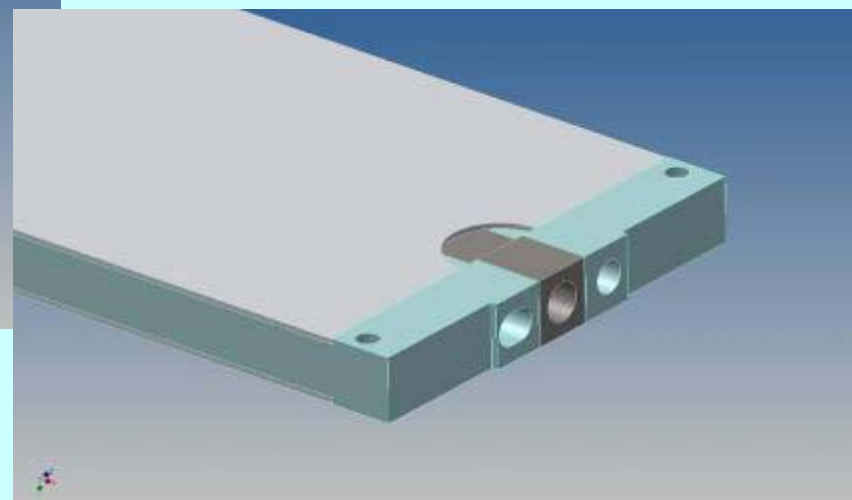
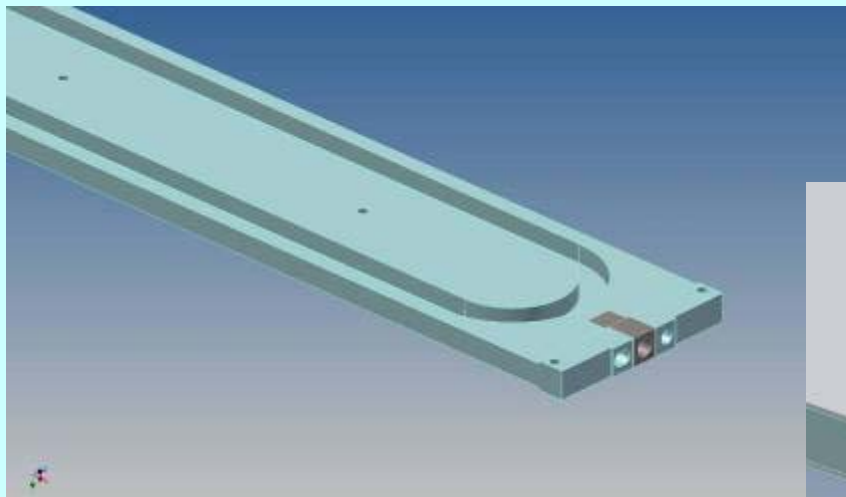
- Run 13 Continues: run support maintenance
- Maintenance day yesterday 4/3:
 - VTX Cooling Tube leak found and fixed
 - FVTX electronics work
 - PC LV repairs
 - EmCal boards and fans
 - RPC1 HV problems fixed
- Continue VTX strip pixel stave re-design
- Continue sPHENIX support
- Continue MPC-Ex design

Next Week

- Run 13 Continues: run support maintenance
- No scheduled access next week: next maintenance day: 4/18
- Continue VTX strip pixel stave re-design
- Continue sPHENIX support
- Continue MPC-Ex design
- Future IR evolution modeling

TECHNICAL SUPPORT 2013

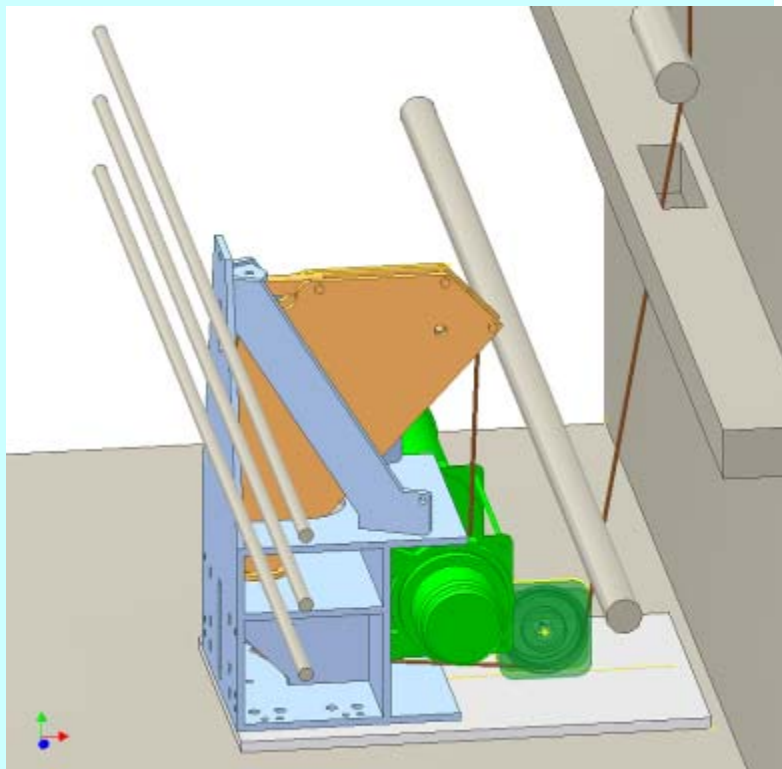
VTX Repair Project Progress



Prototypes of updated stave design
are in progress expect to be testing
by end of April

Window Washer Winch Upgrade

TECHNICAL SUPPORT 2013



Quotation #: 83944
Quotation Date: March 6, 2013
Page: 1 of 3

Attention: Donald Lynch
Company: Brookhaven National Lab
Phone: 631-344-2253

Based on the information provided to us for an AC hoist to be used for lifting, we are pleased to propose the following:

| Line | Qty. | Product: | Net Each | Extended |
|------|------|---|------------|------------|
| 1 | 1 | Columbia HF2100-2A17-L-03 AC Electric Hoist <ul style="list-style-type: none"> 2.0 HP TEFC UL-listed brakemotor 230/3/60 input power Automatic, load-suspending braking system Permanently lubricated, high-efficiency planetary gear reduction Argent gray enamel paint finish Includes single speed low voltage controls <ul style="list-style-type: none"> Reversing motor starter in a NEMA 4X fiberglass enclosure UL-listed Includes NEMA 4X hand-held pendant control with UP/DOWN momentary contacts and up to 15' lead | \$5,022.00 | \$5,022.00 |

Options:

| Line | Qty. | Product: | Net Each | Extended |
|------|------|--|------------|------------|
| 2 | 1 | AutoAdvance Line Spooler <ul style="list-style-type: none"> Designed and built for Columbia HF2100-2A17-L-03 Incoming line from front of spooler Fabricated steel frame Sheaves are steel construction, grooved for 5/16" line Ensures proper line spooling regardless of fleet angle Rope tension must be maintained for proper operation | \$3,298.00 | \$3,298.00 |

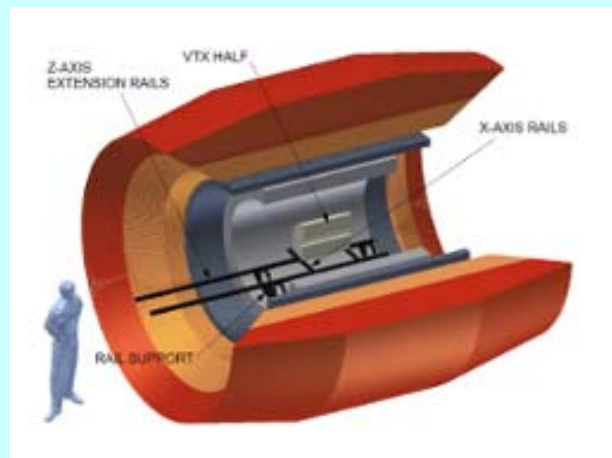
| Line | Qty. | Product: | Net Each | Extended |
|------|------|--|----------|----------|
| 3 | 1 | VLS-6 Vertical Lead Sheave <ul style="list-style-type: none"> 6,000 lbs load limit Can be bolted down or welded for installation Fabricated steel construction Offset design allows for simple installation at any angle Bronze bushed steel sheave grooved for 5/16" wire rope | \$458.00 | \$458.00 |

| Line | Qty. | Product: | Net Each | Extended |
|------|------|--|----------|----------|
| 4 | 1 | Wire Rope <ul style="list-style-type: none"> 200' of 5/16" galvanized aircraft cable with latching hook Supplied loose | \$158.00 | \$158.00 |

Total Estimated Material Cost: \$8396

4/4/2013

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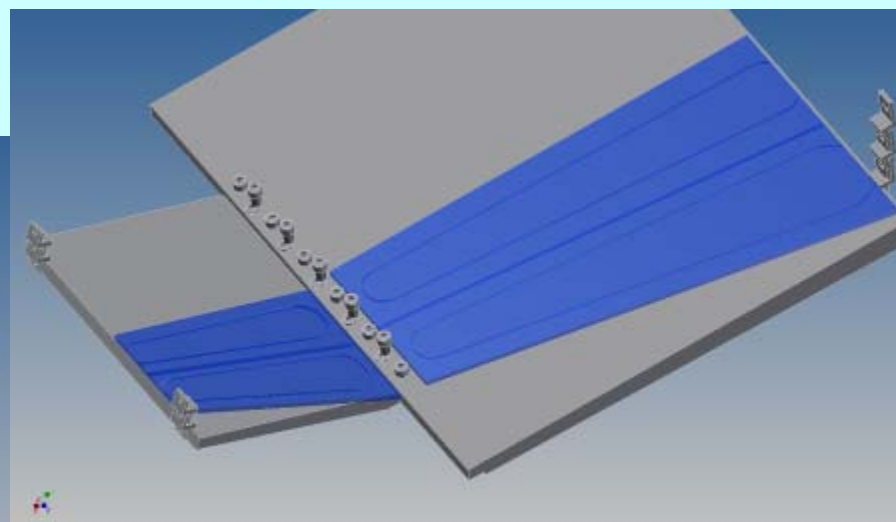
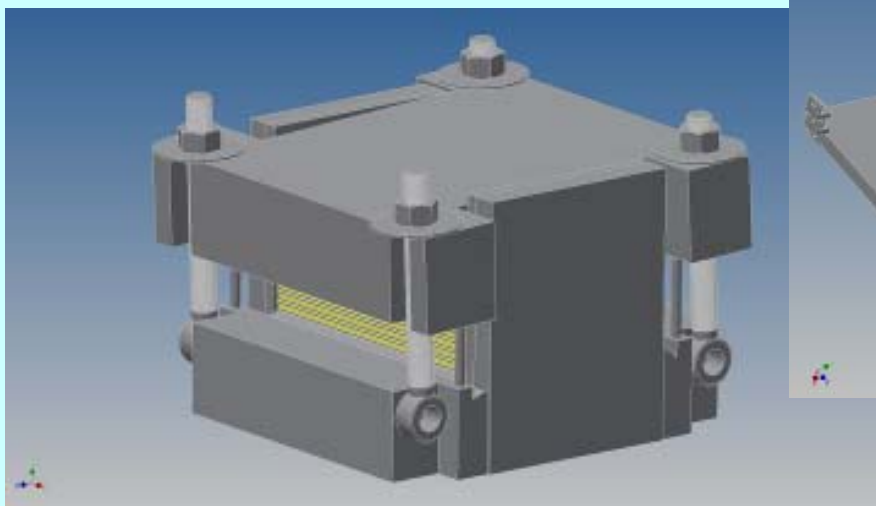


sPHENIX Proposed Upgrade

Work continues evaluating engineering tradeoffs for EMCal and HCal design, materials, etc.

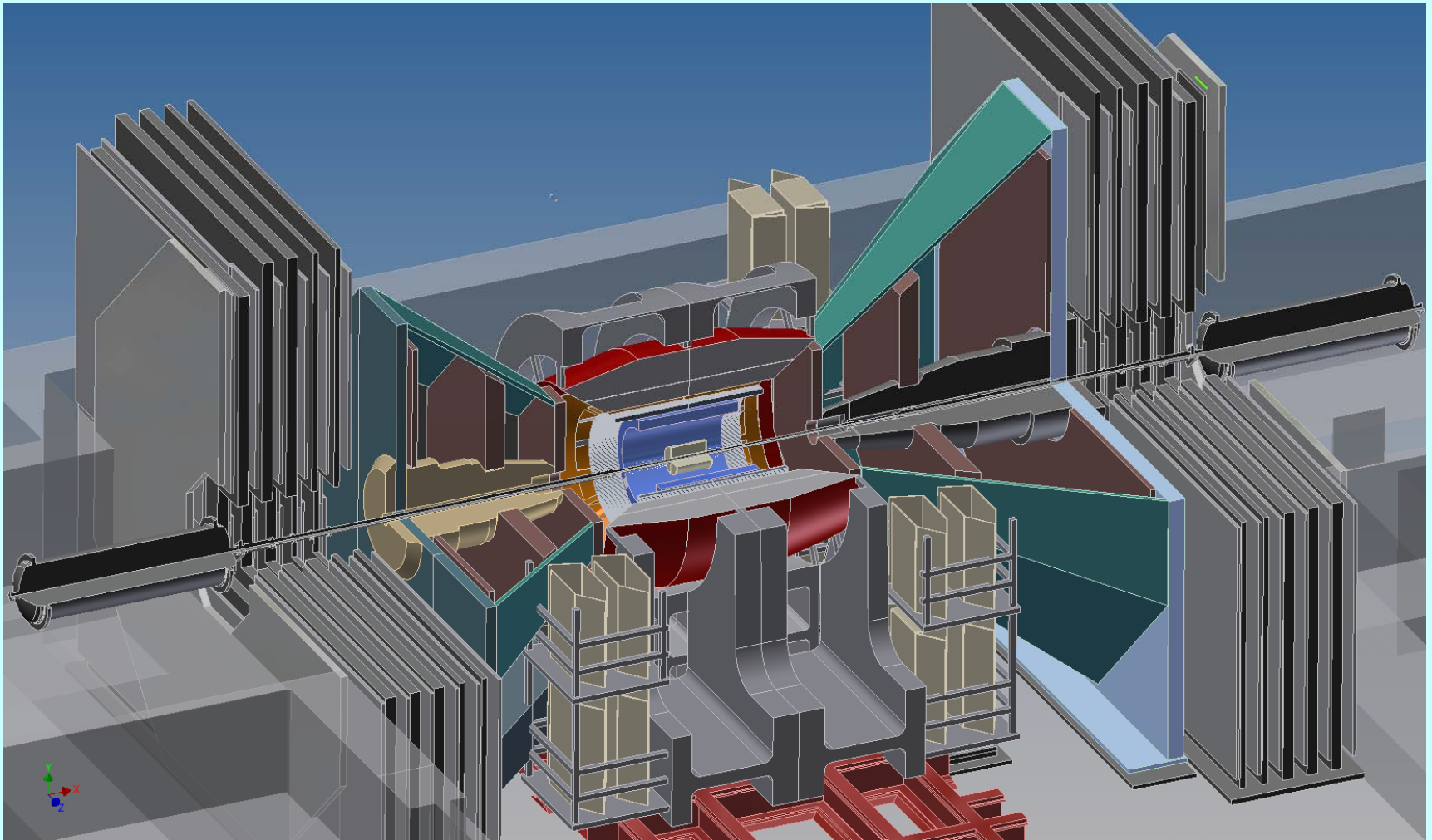
Prototype HCal and EMCal in progress

Bid packages for Hcal steel and scintillators in progress



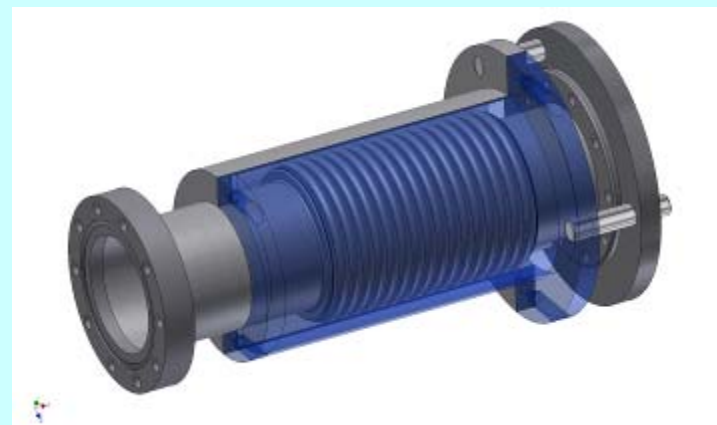
sPHENIX

TECHNICAL SUPPORT 2013

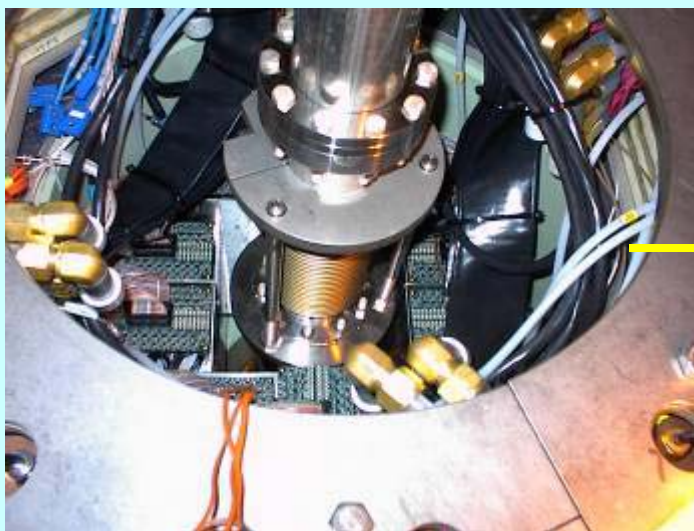




Existing vacuum bellows anti-squirm
In MPC S Cavity



Proposed vacuum bellows anti-squirm
In MPC S Cavity to accommodate MPC-Ex



MPCS Flat cables replaced with round cables.

General Maintenance Items

TECHNICAL SUPPORT 2013



4/4/2013

TECHNICAL SUPPORT 2013

| | |
|--|----------------|
| Prep for 2013 shutdown | 2/11-6/30/2013 |
| Design, Fabricate MPC-Ex | |
| Define tasks and goals | |
| Analysis and design of fixtures, tools and procedures | |
| Fabricate/procure tools and fixtures | |
| Tests, mockups, prototypes | |
| Receive, fabricate, modify, finish installables | |
| Review and approval of parts, tools, fixtures and procedures | |
| Assembly and QA tests | |
| End of Run Party | 6/28/2013 |
| Run 12 Ends | 6/30/2013 |
| Shutdown Standard Tasks | 6/30-7/19/2013 |
| • Open wall, disassemble wall, Remove MuID Collars, | |
| • Move EC to AH, etc. | |
| Disassemble VTX/FVTX services | 7/1-7/19/2013 |
| July 4 th Holiday | 7/4/2013 |
| Remove VTX/FVTX and transport to Chemistry Lab | 7/22/2013 |
| Assemble, Test and Install MPC-Ex (North only?) | 7/22-10/1/2013 |
| Summer Sunday (8/11) Prep and teardown | 8/7-8/13/2013 |
| Summer Sunday (RHIC) | 8/11/13 |
| Other detector maintenance as required | As required |
| Infrastructure maintenance as required | As required |
| TBD prototype tasks | As required |

TECHNICAL SHUTDOWN-2013

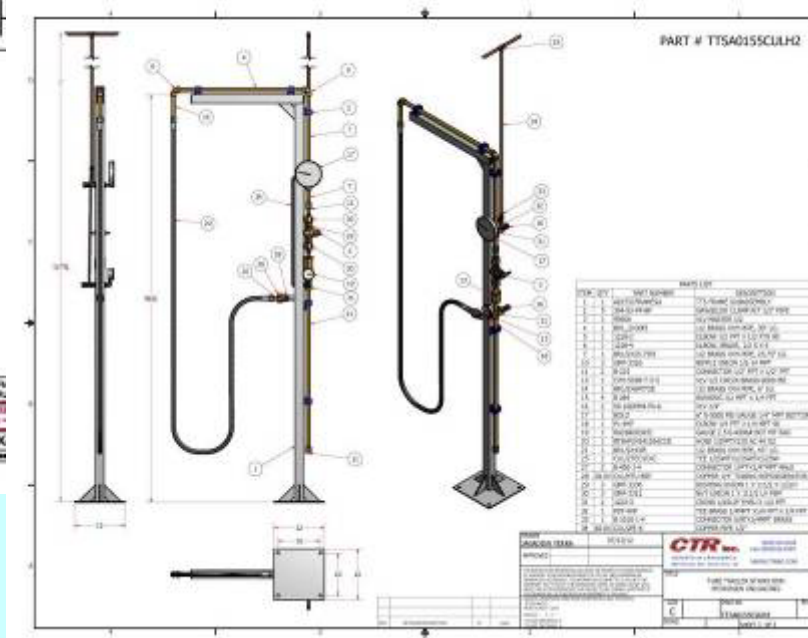
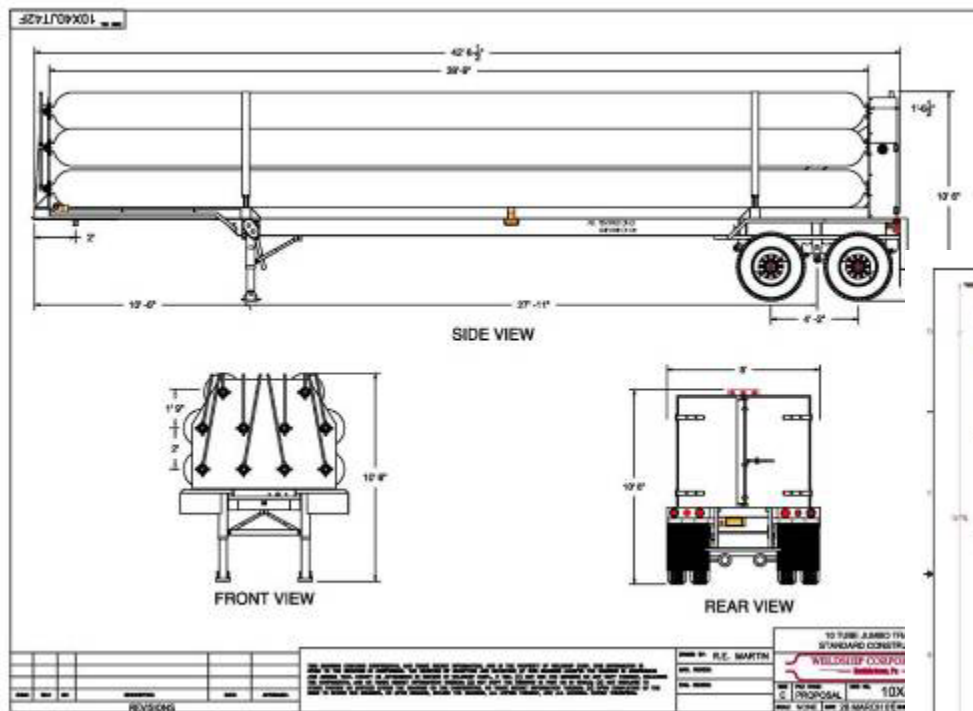
| | |
|--|------------------|
| DC East Window Upgrade and Related Repairs | 8/19-9/27/2013 |
| sPHENIX HCal Prototype Assembly/test | 8/19-10/15/2013 |
| Labor Day Holiday | 9/2/2013 |
| Repair upgrade, reassemble VTX/FVTX | 7/23-10/13/2013 |
| Test, survey (at Chemistry and IR) and re-install VTX/FVTX | 10/16-10/27/2013 |
| Pre-run commissioning and prep for run 14 | 11/1-12/31/2012 |
| Prep for EC roll in | 11/1-11/9/2013 |
| Roll in EC | 11/10-11/12/2013 |
| Prep IR for run | 11/1-11/30/2013 |
| Pink/Blue/White sheets | 12/14-12/31/13 |
| Start run 14 | 1/1/2014 |

Requests for shutdown work should be submitted as soon as possible .
It is particularly important that we know when and if access is needed to (a) the front or back of the WC, (b) south station 1, (c) north station 1, (4) interior of MMS, (5) interior of MMN.



Ethane Trailer Project: In progress





- Pressure in the tanks = 540 psig
- Total Volume by weight = 12,000 lbs.
- Total Volume in cu. ft. = 154,8000
- We will use about 1/3 of this volume this run, about 1/2 next year.
- The cost savings are significant (~14%). About \$4,000.00 this year, more next year.
- The obvious safety benefit over cylinder packs.
- The trailer goes back to Airgas at the end of run.

mRPC Test Lab Project

TECHNICAL SUPPORT NOTES



4/4/2013

From Ray Karol:

1. Important:

If you see an area marked off with red "Danger-Do Not Enter" or yellow "Caution" tape – DO NOT PASS THE BARRICADED AREA UNTIL YOU FIND OUT WHAT THE HAZARDS ARE, WHAT PPE IS NEEDED IF ANY, AND ASK THE LOCAL SUPERVISOR, RESEARCH SPACE MANAGER OR FACILITY PROJECT MANAGER, OR WORKERS IN THE AREA IF YOU CAN ENTER. Pay attention to your surrounding and do not ignore these barricades. They must be removed ASAP when the hazard that they were put up for have been removed.

We are currently research the true meaning of these barricades and will soon have an OPM out with the concurrence of F&O so we are both installing and reacting the same way to these barricaded areas.

2. New staff who have not yet taken Human Performance Training may read an excellent book by James Reason, *Managing the Risks of Organizational Accidents*

The book is at the following website – use the password oper8 if asked for a password:

<http://www.c-ad.bnl.gov/ESSHQ/SND/Training/Managing%20the%20risks%20of%20organizational%20accidents.pdf>

3. Please remember to recycle only paper in the blue receptacles throughout the lab.

BNL makes money selling paper recyclables with a local contractor and the contractor does not want food or any regular wastes mixed in with the paper. IN the past BNL has almost lost the contract because the contractor refuses to sift through the paper wastes to remove food and other solid wastes (loose leafs, pens, pencils, etc.)

4. Here is an interesting safety statement from LIPA that came with the last electric bill:

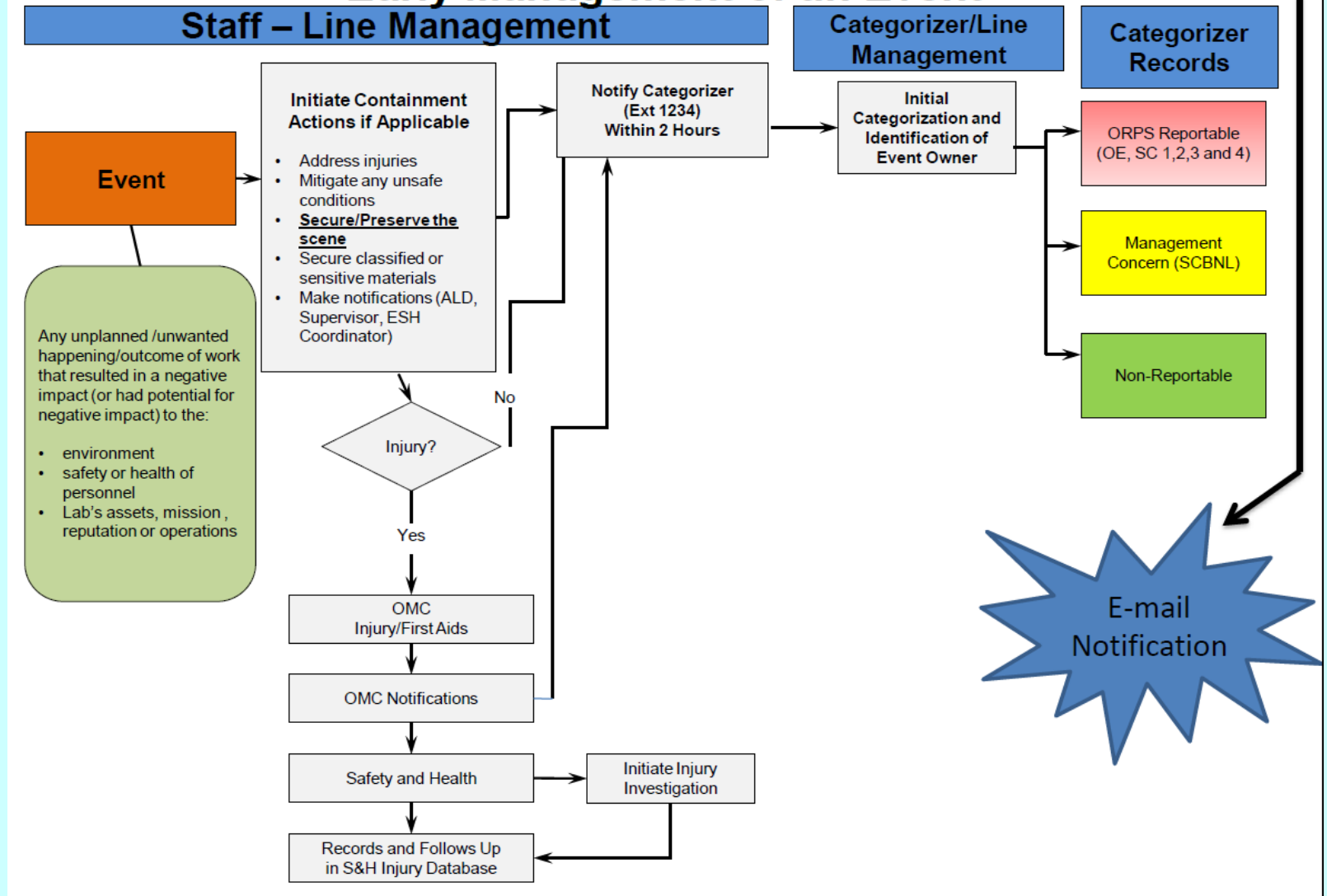
Electric Wires.

Never go near or touch any downed wire, even if you think it is safe. Keep others away and call LIPA to report it. Any wire can become electrified if it come in contact with a live electric wire. If you are in a car that come in contact with a downed wire, stay in the car until help arrives, or drive clear of the wires. **If a fire or other emergency requires that you leave the car, jump out directly to the ground so that no part of you touches the ground and the car at the same time.**

During a recent "Lunch with the Doon and Mike" a suggestion, to share the Management Council Minutes with the Supervisors, was made. The Director followed up on the suggestion and supervisors can now access the monthly minutes and presentations at:

<https://intranet.bnl.gov/do/mgmtCouncil/> .

Early Management of an Event



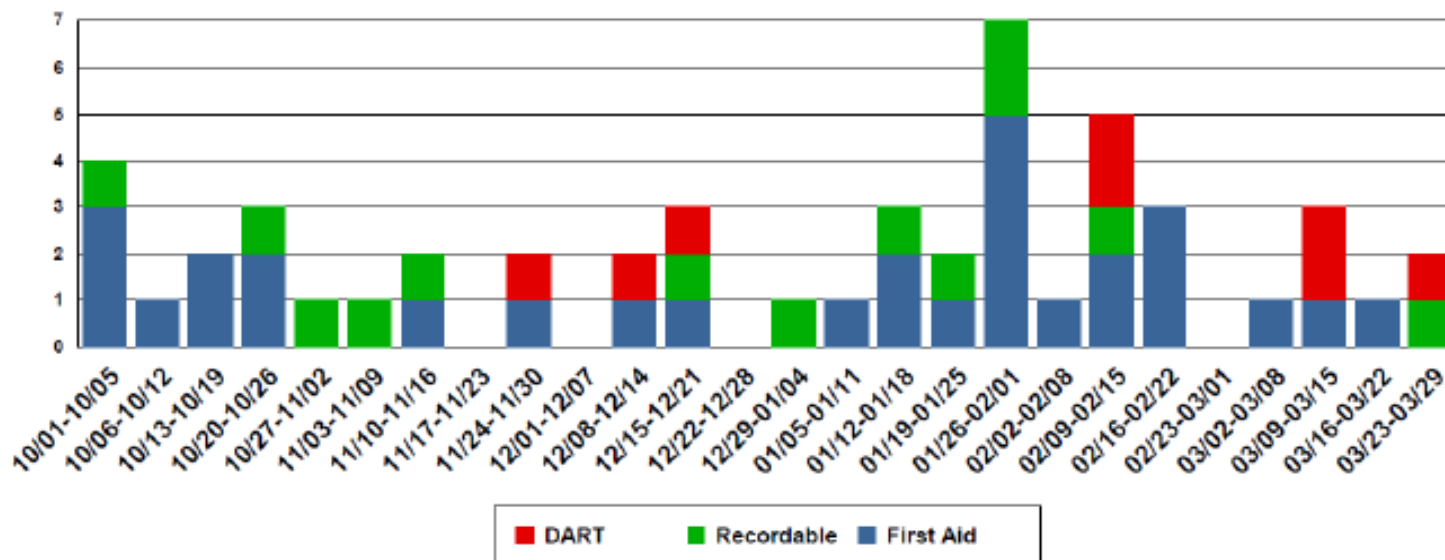
From Terry Magueri: *manager BNL Training and Qualification*

A few weeks ago I sent you an email (below) notifying you of the requirement to retake Ladder Safety. (Retaking Fall Protection training is not needed) The personnel who need to retake Ladder Safety are anyone that has taken Ladder Safety previously and those who have taken Fall Protection training.

In the last few days, the training was removed from the website to make revisions. It was updated to ensure clarity around a number of topics involving Portable Ladders. Additional questions were added to the quiz to ensure employee understanding of both sections of the course.

I am asking you to again notify all personnel affected to take the training again. I apologize for this inconvenience. I would also encourage you to take this opportunity to have a discussion with your employees on the use of ladders and training. Based on this discussion, if they indicate they did take the recent update, that a decision about watching the two videos may be prudent. You may allow them to skip the videos as you see fit. In all cases, successful completion of the test (from today) will be required.

Injuries Per Week (FY) As of 3/29/2013



Injury Status:

FY13 YTD: DART – 8, TRC – 21, First Aid – 30

FY12: DART – 17, TRC – 35, First Aid – 70

FY11: DART – 30, TRC – 44, First Aid – 45

FY13 Injury Listing: <https://intranet.bnl.gov/esh/shsd/seq/OccInj/BNLInjuries.aspx>

Recent Injuries

| | | |
|---------|------------|--|
| 3/26/13 | DART | An employee hurt his knee while walking down steps. He lost a day of work and was returned to work on restricted duty. |
| 3/25/13 | Recordable | An employee banged his teeth while installing insulation with a staple gun, breaking an upper tooth which required medical attention. |
| 2/1/13 | Recordable | An employee was lifting and sorting boxes when she developed wrist pain. She was given a prescription for physical therapy which she is doing on site. |



| Recent Events | | |
|---------------|----------------|---|
| 3/25/13 | Non-Reportable | At approximately 12PM, BNL Fire Rescue responded to a small spill (<1gallon) of #2 fuel oil to pavement outside the west door of the Central Steam Facility (Building 610) The spill was cleaned up by the steam plant staff. BNL Environmental Services was contacted and responded. (Event Link) |
| 3/23/13 | Non-Reportable | At approximately 9:30PM, Saturday, March 23, 2013, a privately owned vehicle (POV) went off the road and crashed in the woods behind Building 1002. BNL Police and Fire Rescue responded. The cause of the single car accident is unknown at this time. No one was injured. (Event Link) |
| 3/20/13 | Non-Reportable | At about 1145 on 3/20/13, IFM electricians Locked-Out and Tagged-Out (LOTO) an electrical panel attached to the outside wall of the Jet Trailer which is located inside B1012 at RHIC. The LOTO was put in place in accordance with established procedures to facilitate replacement of a circuit breaker. Before the LOTO was in place and panel cover removed, the IFM Electricians installed a Danger Tape barricade to perform a zero energy check on the panel. The temporary barricade encompassed the planned work area outside the Jet Trailer. The barricade prevented entrance into the Jet Trailer, but allowed egress from inside the RHIC Ring to the outside of Building 1012. After the Danger Tape barricade was in place, a C-AD Physicist came out of the RHIC Tunnel, stepped across the Danger Tape, went to the Jet Trailer door to drop off his ODH escape pack and then stepped back outside the Danger Tape barricade. The Physicist indicated that an IFM FPM had alerted him to not cross the Danger Tape but he had already done so. The electricians report they did not see him cross the barricade but indicated they had heard the verbal warning. When C-AD management was told of this on the morning of 3/21/13 they interviewed all personnel involved and are currently developing corrective actions to prevent recurrence. There were no injuries. (Event Link) |

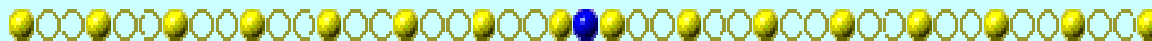


Where To Find PHENIX Engineering Info



*As Mr. T says April
is here and we are
approaching $\frac{1}{2}$ way
into run 13.*

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm



*Congratulations to Frank Toldo
on his 25th Anniversary at
Brookhaven National Lab*



TECHNICAL SUPPORT 2013

Clean

Organized



10. Meticulous

10. Meticulous

Determined

High quality

9. Talented

TECHNICAL SUPPORT 2013

10. Meticulous
9. Talented

Reliable

Helpful

8. Team-Player



10. Meticulous
9. Talented
8. Team-Player

7. Uplifting

TECHNICAL SUPPORT 2013

Highly charged

Shocking

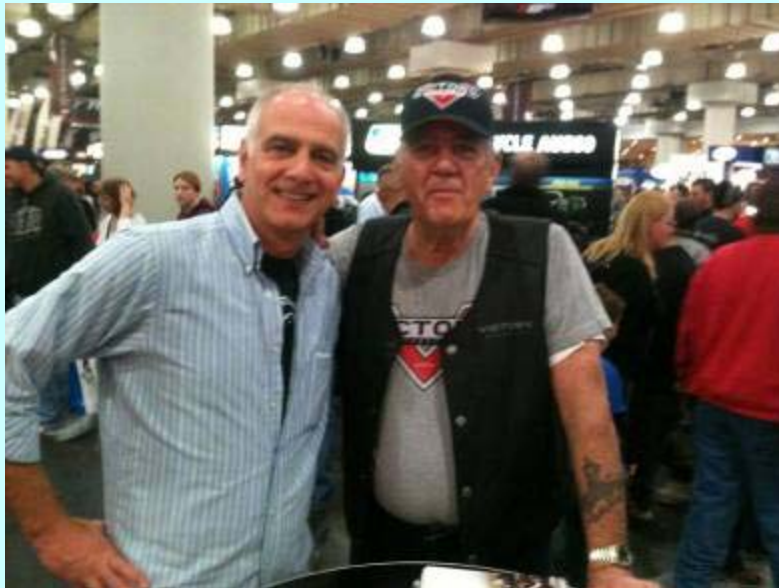
Bucket builder

Energetic

6. Electrifying

- 10. Meticulous
- 9. Talented
- 8. Team-Player
- 7. Uplifting

Bi-wheeler



- 10. Meticulous
- 9. Talented
- 8. Team-Player
- 7. Uplifting
- 6. Electrifying

5. Biker-Dude

TECHNICAL
SUPPORT
2013

Willing

10. Meticulous
9. Talented
8. Team-Player
7. Uplifting
6. Electrifying
5. Biker-Dude

4. Accommodating

TECHNICAL SUPPORT 2013

Dexterous

Skinny/Thin

flexible

10. Meticulous
9. Talented
8. Team-Player
7. Uplifting
6. Electrifying
5. Biker-Dude
4. Accommodating

3. Nimble

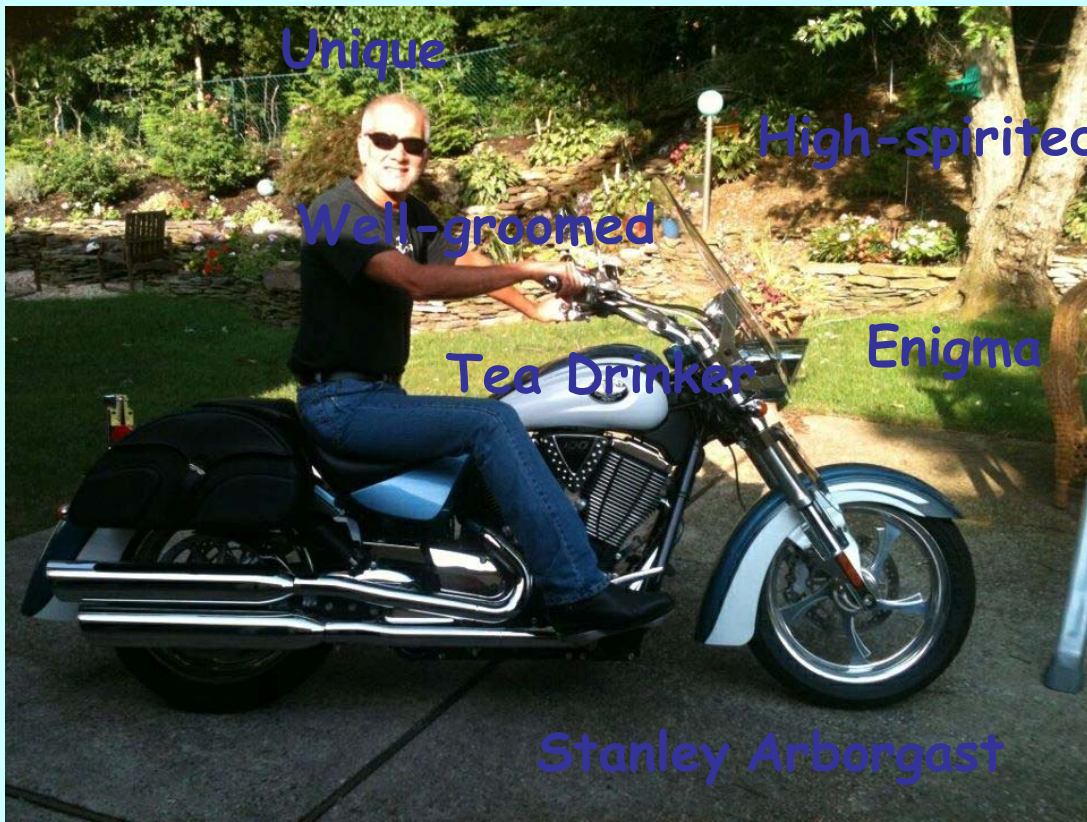
Inspiring



10. Meticulous
9. Talented
8. Team-Player
7. Uplifting
6. Electrifying
5. Biker-Dude
4. Accommodating
3. Nimble

2. Trend-Setting

Hairy-back



10. Meticulous
9. Talented
8. Team-Player
7. Uplifting
6. Electrifying
5. Biker-Dude
4. Accommodating
3. Nimble
2. Trend-Setting

1. Frank





10. Meticulous
9. Talented
8. Team-Player
7. Uplifting
6. Electrifying
5. Biker-Dude
4. Accommodating
3. Nimble
2. Trend-Setting
1. Frank

Congratulations Frank on 25 great years!